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Project No. _____

Book No. _____

TITLE 23 mer degradation: V, OV, Tnc
buffers: Cheung vs. Vent vs. KlenTag

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10x Cheung buffer 5x	20	→									
10x KlenTag buffer *			10	→							
Vent buffer						10	→				
Tog storage buffer			2	2	→						
Mg OAc 12 mM	9.5	→									
Mg SO ₄ 100 mM			1.2	μl	→						
glycerol 50%										16	→
DMSO 100%											
32P 23mer **	3	μl	→								
Vent pol 0.05 μl	2			2		2		2		2	
Deep Vent 0.05 μl		2			2			2			2
Tne 0.5 μl			2			2			2		
H ₂ O	65.5	→	81.8	81.8	83.8	85	→			69	→

Preheat to 70°C, start by addition of DNA pol
remove 10 μl to 5 μl cycle reg stop max at 10, 20, 30 min
well #1 is 23mer uncut
Vp = 100 μl

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✓
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✓ ← (note KlenTag system relies on Tag storage buffer for glycerol and
Tweens/NP40 - for Tne it is diluted in Tag storage buffer
so no supplement needed for vent
and Deep vent dilution
is in storage buffer
(with Triton and
50% glycerol)

✓ (1.2 mM Mg OAc Cf)

✓ (1.2 mM Mg SO₄ Cf)

✓ Cf = 8% glycerol

2 → ✓ Cf = 2% DMSO

→ ✓

} dilute in vent/Deep vent storage/dilution buffer (its
(dilute in Tag storage buffer) 2.1% Triton)

so Cf = .002%
Triton
will include
2 µl Tag storage
buffer next time
(similar to TFL
storage buffer with
0.5% Tween/NP40)

3 µl, 0.66 pmol/l 13.5 µl (8.91 pmol)
23 µl ~~16.8 µl~~ (25.1 pmol)
6 pmol/l H₂O 24.7 µl
55 µl
0.36 pmol primer

** for 72p 23 mer mix 0.66 pmol/l 13.5 µl
plus 16.8 µl cold 5' 3' 23 mer plus
24.7 µl H₂O so Vf = 55 µl and specific
activity is reduced 4x 2x

* 10x KlenTag is 500 mM Tris HCl pH 9.0
160 mM (NH₄)₂SO₄ and no Mg SO₄

Cf = 360 mM primer

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